



ES16-16WA

ELECTRIC STACKER 1.6T

 1600 kg  5500 mm  24 V AGM



The ES-WA Series is designed for warehouses, logistics hubs, and distribution centers that require reliable and heavy-duty stackers for medium-to-high racking. With chassis width of just 800 mm and a turning radius as low as 1463 mm, they perform efficiently in confined spaces. Long tiller design ensures safer and more comfortable operation, while proportional lift system (optional) allows smooth and precise load handling.

SPECIFICATION	REF	UNIT	VALUE
Battery type			AGM
Battery nominal capacity		Ah	230
Battery voltage		V	24
Load capacity	Q	kg	1600
Load centre distance	c	mm	600
Service weight		kg	1070
Retracted mast height	h ₁	mm	2030
Lift height	h ₃	mm	2912
Height, mast extended	h ₄	mm	3420
Overall length		mm	1940
Overall width	b ₁ /b ₂	mm	800
Length to face of forks	l ₂	mm	790
Fork dimensions	s/e/l	mm	60x170x1150
Turning radius		Wa	1589
Operator type			Pedestrian
Load distance, centre of drive axle to fork		mm	693

Features

Strong and durable build

Equipped with an innovative AC system, high-strength gearbox, and robust hydraulic unit, the ES-WA Series ensures long service life and reliable performance in intensive warehouse environments.



Safe and ergonomic operation

Safety features include emergency reverse button, anti-rollback brake, multiple lifting limit protections, and automatic speed reduction at height. The long tiller design improves visibility and operator comfort.

Flexible mast and battery options

With lift heights ranging from 2.5 m to 5.5 m and battery capacities up to 230Ah, the ES-WA Series adapts to diverse warehouse requirements, from light to heavy-duty stacking cycles.





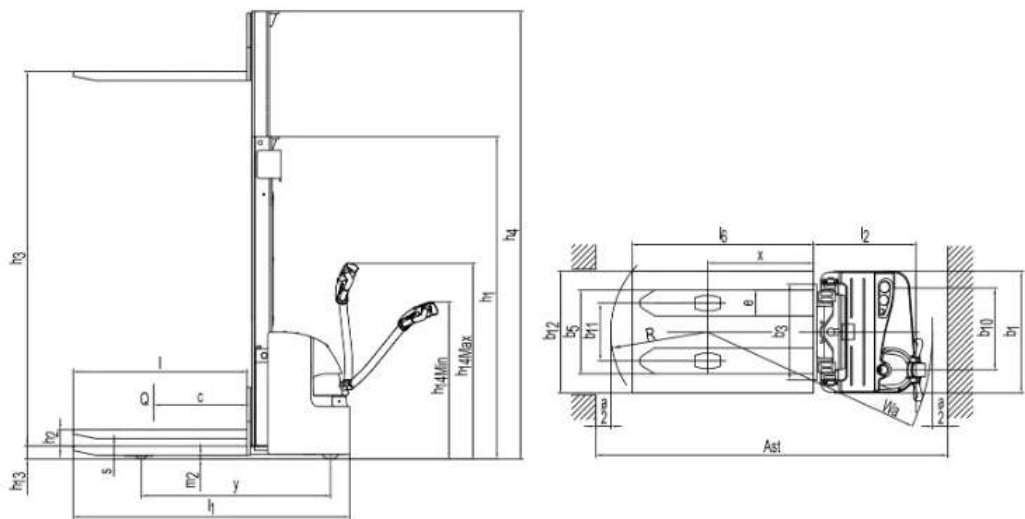
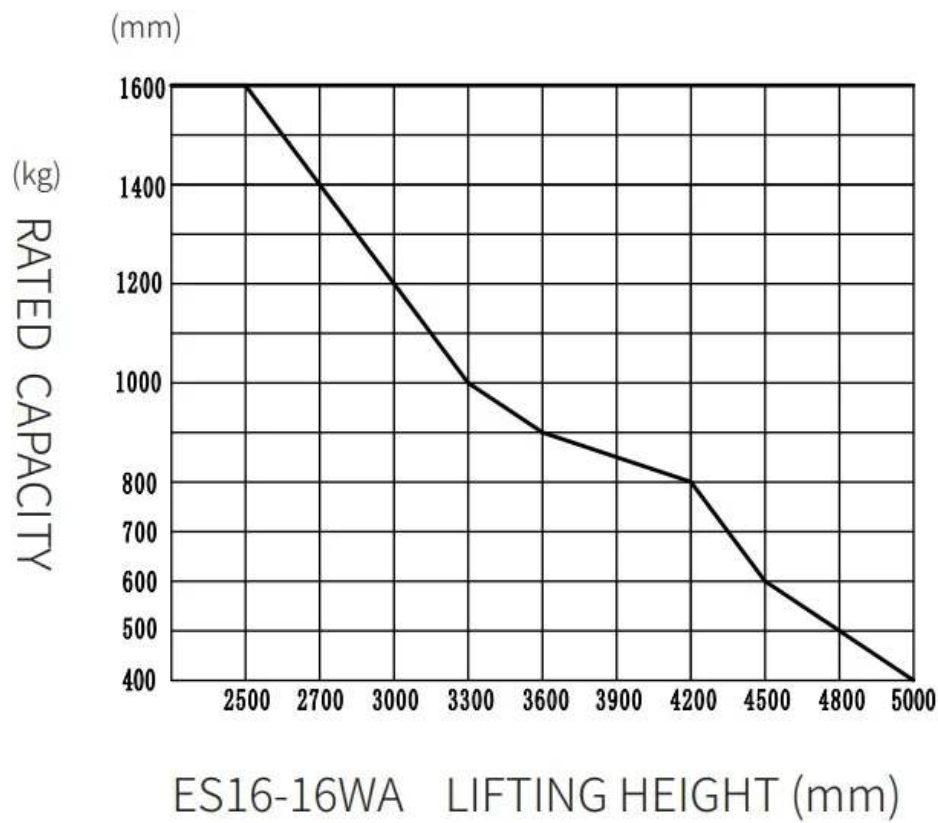
Efficient and precise load handling

Two-speed lowering and optional proportional lift system give operators greater stability and accuracy when stacking at high levels, ensuring safe and efficient pallet placement.

VDI Chart

SPECIFICATION		REF	UNIT	VALUE
1.4	Operator type			Pedestrian
1.5	Load capacity	Q	kg	1600
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork		mm	693
1.9	Wheelbase		mm	1305
2.1	Service weight		kg	1070
2.2	Axle loading, laden front/rear		kg	780/1890
2.3	Axle loading, unladen front/rear		kg	730/340
3.1	Tyre type			Polyurethane
3.2	Tyre size, front			Φ230x75
3.3	Tyre size, rear			Φ85x70
3.5	Additional wheels (castor wheels)			Φ130x55
3.5	Wheels, number front/rear (x=drive wheels)			1x +1/4
3.6	Tread width, front	b ₁₀	mm	538
3.7	Tread width, rear	b ₁₁	mm	360/495
4.15	Lowered height			88
4.19	Overall length		mm	1940
4.2	Retracted mast height	h ₁	mm	2030
4.20	Length to face of forks	l ₂	mm	790
4.21	Overall width	b ₁ /b ₂	mm	800
4.22	Fork dimensions	s/e/l	mm	60x170x1150
4.24	Fork carriage width		mm	-
4.25	Distance between fork-arms			550/685
4.26	Distance between wheel arms/loading surfaces			-

SPECIFICATION		REF	UNIT	VALUE
4.3	Free lift		mm	100
4.31	Ground clearance, laden, below mast		mm	-
4.32	Ground clearance, centre of wheelbase		mm	30
4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	2465
4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	2440
4.35	Turning radius		Wa	1589
4.4	Lift height	h ₃	mm	2912
4.4.1	Max lift height		mm	5500
4.5	Height, mast extended	h ₄	mm	3420
4.6	Initial lift		mm	-
4.9	Height of tiller handle in drive position min./max.			715/1200
5.1	Travel speed, laden/unladen		km/h	5.0/5.5
5.10	Service brake			Electromagnetic
5.2	Lifting speed, laden/unladen		m/s	0.13/0.16
5.3	Lowering speed, laden/unladen		m/s	0.22/0.13
5.8	Max. gradeability, laden/unladen		%	8/16
6.1	Drive motor rating S2 60 min		kW	1.1
6.2	Lift motor rating at S3 15%		kW	3.0
6.4	Battery nominal capacity		Ah	230
6.4	Battery voltage		V	24
6.4.1	Battery type			AGM
6.5	Battery weight		kg	190
8.1	Type of drive control			AC
10.5	Steering design			Mechanical
10.7	Sound pressure level at the drivers ear		dB(A)	74



Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)
2-Standard Mast	2500	1770	2965	100
2-Standard Mast	2700	1870	3165	100
2-Standard Mast	3000	2020	3465	100
2-Standard Mast2-Standard Mast	3300	2170	3765	100
2-Standard Mast	3600	2320	4065	100
2-Standard Mast	3900	2470	4365	100
2-Free Mast	-	-	-	-
2-Free Mast	-	-	--	-
2-Free Mast	-	-	-	-
3-Free Mast	4000	1830	1390	1390
3-Free Mast	4500	2030	1590	1590
3-Free Mast	4800	2130	1690	1690
3-Free Mast	5000	2195	1740	1740
3-Free Mast	5500	2360	1910	1910

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork lowered height	88
Load wheel type	Double
Load wheel material	PU
Drive wheel material	PU Trace PU
Battery capacity	210Ah 230Ah
Charger	24V-30A external
Battery display indicator (BDI)	With time
Fork length	1150 1220

ITEM	OPTIONS (optional items marked in yellow)
Fork width	550 685